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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,987	06/11/2004	Shu-Lang Dai	ACMP0196USA	3986
27765	7590	09/01/2005	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			TRINH, SONNY	
P.O. BOX 506			ART UNIT	
MERRIFIELD, VA 22116			PAPER NUMBER	
			2687	

DATE MAILED: 09/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/709,987

**Applicant(s)**

DAI ET AL.

**Examiner**

Sonny TRINH

**Art Unit**

2687

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11 June 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 June 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Specification*

1. **Claim 10** is objected to because of the following informalities: the word "batter" in line 21 should be changed to --"battery"--. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1, 5-6, 10, 14-15** are rejected under 35 U.S.C. 102(e) as being anticipated by Parulski et al. (hereinafter "Parulski"; U.S. Patent Application number US 2003/0186708 A1).

Regarding claim 1, with reference to figures 4-5 and descriptions, Parulski discloses a battery module of a mobile phone (figure 4, battery module 10), the battery module comprising:

a camera module for capturing digital images (figure 4, camera/battery module 10),

a memory for storing digital images captured with the camera module (figure 5, memory 128),

a first interface for connecting to the mobile phone for transmitting captured digital images from the battery module to the mobile phone (figure 5 interface contacts 25);

a battery cell for supplying electrical power (figure 5, power supply 134); and

a plurality of battery contacts for contacting corresponding battery connectors of the mobile phone and for providing electrical power supplied by the battery cell to the mobile phone (figure 5, contacts 23, 25).

Regarding **claims 5 and 14**, Parulski further discloses the first interface comprises first and second pins of the battery module electrically connecting to a receive pin and a transmit pin of the mobile phone for facilitating communication between the battery module and the mobile phone and for transmitting captured digital images from the battery module to the mobile phone (figure 5, contact pins 25).

Regarding **claims 6 and 15**, Parulski further discloses that the first interface is an RS232 serial interface (figure 5, contact pins 25, [0031]).

Regarding **claim 10**, with reference to figures 1-5 (please see descriptions), Parulski discloses a mobile phone capable of capturing digital images (abstract, [0024], the mobile phone comprising:

a housing (figures 1-3);

a cavity in the housing formed for receiving a battery (figures 2-3),

a battery module removably disposed in the cavity of the mobile phone housing (figures 2-3), the battery module comprising:

a camera module for capturing digital images (figure 4),

a memory for storing digital images captured with the camera module (figure 5, memory 128),

a first interface for electrically connecting to the mobile phone for transmitting captured digital images from the battery module to a battery cell for a plurality of battery contacts for providing electrical circuitry of the mobile phone (figure 5, contacts 25);

a battery cell for supplying electrical power (figure 5); and

power supplied by the battery cell to the mobile phone (figure 4);

a plurality of battery connectors corresponding to the battery contacts of the battery module for receiving electrical power from the battery cell (figure 4, contacts 23); and

an interface corresponding to the first interface of the battery module for transmitting digital images received through the first interface of the battery module to the circuitry of the mobile phone (figure 4, contacts 23).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 2-3, 11-12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Parulski et al. (hereinafter "Parulski"; U.S. Patent Application number US 2003/0186708 A1).

Regarding **claims 2-3, and 11-12**, Parulski discloses the invention but does not explicitly disclose the first button for taking pictures when the first button is pressed nor the second button for powering the camera module on and off. However, button for taking pictures as well as for power on/off are well known and it would have been obvious and well within the level of a person of ordinary skill in the art to incorporate the buttons onto the module so that the user can take pictures as well as turn on and off the camera.

4. **Claims 4, 13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Parulski et al. (hereinafter "Parulski"; U.S. Patent Application number US 2003/0186708 A1) in view of Miyashita (hereinafter "Miyashita"; U.S. Patent Application number US 2003/0117503 A1).

Regarding **claims 4 and 13**, Parulski discloses the invention but does not disclose the first button is used for taking pictures when the first button is pressed for a period of time within a first predetermined range of times, and for powering the camera module on and off when the first button is pressed for a period of time within a second predetermined range of times.

In an analogous art, Miyashita teaches a digital camera that can reduce the activation time required from the switching on of power (abstract, [0006] – [0011]). Miyashita further teaches the button is used for taking pictures when it is pressed for a period of time within a first predetermined range of times, and for powering the camera module on and off when it is pressed for a period of time within a second predetermined range of times ([0030], [0050]).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to incorporate the multi-function button, as taught by Miyashita, into the system of Parulski, in order to eliminate multiple components and to reduce/save the cost/space associate with the design of the camera module.

5. **Claims 7-9, 16-18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Parulski et al. (hereinafter "Parulski"; U.S. Patent Application number US 2003/0186708 A1) in view of Voss et al. (hereinafter "Voss"; U.S. Patent Application number US 2004/0100574 A1).

Regarding **claims 7-9 and 16-18**, Parulski discloses the invention but does not disclose that the first interface is a universal serial bus (USB) interface or a second interface for connecting to an external computer for transmitting captured digital images from the battery module to the external computer or wherein the memory is a flash memory for storing the digital images in a non-volatile manner.

In an analogous art, Voss teaches a method for capturing video and still image (abstract, [0004] – [0007]). Voss further teaches the universal serial bus (USB) interface and the interface for connecting to an external computer for transmitting captured digital images from the battery module to the external computer as well as the memory is a flash memory for storing the digital images in a non-volatile manner (page 2, specifically paragraph [0018]).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to incorporate the USB port, the interface as well as the volatile memory, as taught by Voss, into the system of Parulski, in order to easily


transfer the pictures to a PC as well as conserving the pictures in the memory with the non volatile memory when the power is off or the battery supply is depleted.

### CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonny TRINH whose telephone number is 571-272-7927. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester KINCAID can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
SONNY TRINH  
PRIMARY EXAMINER

8/26/05